

Source

The dried ripe seed of *Plantago asiatica* L. *or P. depressa* Willd.# in the family *Plantaginaceae*

Property and flavour

Cold: sweet

Meridian affinity

Liver, kidney, lung and small intestine meridians

Actions

To clear heat, promote urination and relieve strangury; to drain dampness and stop diarrhoea; to brighten the eyes; to eliminate phlegm

Note:

- * Its name in Chinese Pharmacopoeia (2020 Edition) is "Plantaginis Semen".
- # Only P. asiatica is included in this study as currently it is the main species of Semen Plantaginis in the market.

Micro-morphological features

Shape

Sub-elliptical or irregularly oblong

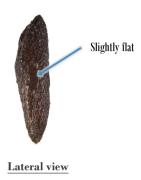




hilum in the middle of the ventral side

Ventral view

Semen Plantaginis



0.5 mm

Surface

Black, blackish-brown or brown, with fine wrinkles





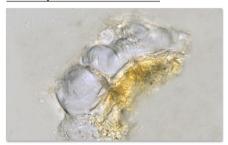


0.2 mm

Powder microscopic features

Testa

Outer epidermal cell of testa



Is frequently found in its lateral side, relatively large, appears subsquare or sub-rectangular, with thin wall, usually adheres to inner epidermal cell of testa

Inner epidermal cell of testa



Light yellow, appears subrectangular, sub-square or subpolygonal in surface view, wall is thin and sometimes slightly wavy

Semen Plantaginis

Key identification features

Micro-morphology

- Sub-elliptical or irregularly oblong
- Has white dented and dotted hilum in the middle of the ventral side
- Surface is black, blackish-brown or brown, with fine wrinkles

Powder microscopy

- Outer epidermal cell of testa: is frequently found in its lateral side, usually adheres to inner epidermal cell of testa
- Inner epidermal cell of testa: wall is thin and sometimes slightly wavy

For more information, please refer to website of the Hong Kong Chinese Materia Medica Standards:

Plantaginis Semen — HKCMMS (Vol 5)

Government Chinese Medicines Testing Institute Department of Health Enquiry hotline: 3188 8079

Website: www.cmro.gov.hk

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